

**Chapter 11 Introduction to Genetics****Section Review 11-2****Reviewing Key Concepts**

**Short Answer** *On the lines provided, answer the following questions.*

1. What is probability and how is it used in genetics?

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2. How are Punnett squares used in genetics?

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**Reviewing Key Skills**

3. **Problem Solving** If a heterozygous plant for seed color ( $Rr$ ) is crossed with a homozygous recessive plant ( $rr$ ), what is the probability of each seed color being produced? Explain your answer using a Punnett square.

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4. **Comparing and Contrasting** How are homozygous and heterozygous genotypes for a particular trait in plants different? Give an example of a genotype for each.

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5. **Applying Concepts** How can two plants that have different genotypes have the same phenotype?

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**Interpreting Graphics** *For questions 6 to 9, fill in the genotype and percentage expected on the lines provided.*

		$Tt$	
		$T$	$t$
$Tt$	$T$	6. _____	7. _____
	$t$	8. _____	9. _____